

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: **8/7/99** UWA Mount No.: **99-12** Whose sample?: **Petra** Operator(s): **McN/MO/PR**

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Indicate any change to the following: <sup>>20 count - NM</sup> 196 204 bkg 206 207 208 238 248 254 ~~270~~

~~Precambrian~~ Count time (secs): 2 10 10 ~~10/20\*~~ <sup>30</sup> 10 5 5 2  
 Phanerozoic\* Delay time (secs): 8 3 1 2 1 1 3 2 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = **32** nanosecs  
 actual 196-204 = **8.165** actual 204-bkg = **0.045** expected resolution = >4200  
 actual 206-207 = **1.000** actual 206-208 = **1.999** actual resolution = **5325**  
 Epoxy = **1.6**  
 Primary = **2.2** nA PESABM = **2.7** pA actual Primary : PESABM (= 50:1) = .....  
 Raster time (mins): **1** Raster aperture (microns): **120** No. of scans: **6**

Comments: *std = 11 % = 1.56 (Actual = 2.04 % = 1.55)*

*No rejections -*

*All pops done together.*

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	<i>ARC dropped out.</i> → <b>sl.9-1</b>	17:36	6.14	8.94	937	220	0.9	0.08	572 ± 1	575 ± 46	✓ ↑
	<b>sl.9-2</b>	18:25	6.46	8.93	994	195	1.5	0.14	580 ± 1	572 ± 47	✓
	<i>stage</i> → <b>sl.9-3</b>	18:44	6.24	8.43	893	212	-1.8	-	568 ± 2	584 ± 78	✓
	<b>a5-3</b>	18:58	6.71	8.61	650	240	0.8	0.14	291 ± 1	189 ± 60	✓
	<b>a5-4</b>	19:34	6.59	8.35	711	264	0.8	1.2	298 ± 1	199 ± 56	✓
	<b>a5-5</b>	19:40	6.28	8.92	445	197	-0.7	-	289 ± 1	326 ± 44	✓
	<b>a16-1</b>	20:21	6.68	8.40	835	283	1.7	0.20	330 ± 1	295 ± 56	✓
	<b>sl-10-3</b>	20:46	6.54	9.11	983	179	1.8	1.8	589 ± 1	589 ± 32	✓
	<b>a6-1</b>	21:11	6.70	9.06	1135	382	0.7	0.07	306 ± 1	266 ± 28	✓
	<i>stage</i> → <b>a6b-1</b>	21:19	6.50	9.08	818	312	1.4	<del>0.17</del> 0.17	295 ± 1	300 ± 32	✓
	<b>a10-b1</b>	22:06	6.68	8.79	672	<sup>243</sup> 296	1.8	0.28	296 ± 1	233 ± 69	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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	sl.10-4	22.32	6.49	9.37	1024	190	2.1	0.21	579 ± 2	575 ± 26	✓
	q11-1	22.52	6.55	9.23	500	181	1.3	0.27	298 ± 1	167 ± 39	✓
	q13-1	23.13	6.75	8.82	908	319	0.8	0.09	293 ± 1	281 ± 47	✓
	a16-1	23.46	6.66	8.99	884	311	2.1	0.26	299 ± 1	225 ± 48	✓
	sl.17-1	00.09	6.31	9.41	970	198	0.6	0.06	570 ± 2	565 ± 36	✓
	a17-1	00.30	6.65	8.73	885	332	0.5	0.06	291 ± 1	277 ± 49	✓
	a18-1	00.50	6.63	9.12	809	290	1.0	0.14	293 ± 1	303 ± 50	✓
	a18-2	1.08	6.65	9.36	641	221	0.1	0.025	295 ± 0	328 ± 105	✓ INF?
	sl.17-2	1.28	6.50	9.70	1021	185	-0.7	-	570 ± 2	593 ± 26	✓
	d2-1	1.57	6.63	9.44	318	136	-0.2	-	240 ± 1	190 ± 54	✓
	d3-1	2.18	6.71	9.22	477	198	1.0	0.23	243 ± 1	192 ± 96	✓
	d4-1	2.42	6.16	8.56	288	187	1.1	0.30	218 ± 1	334 ± 55	✓
	d5-1	3.04	6.16	9.93	137	70	-0.4	-	240 ± 1	132 ± 87	✓
	sl.17-3	3.24	6.39	9.64	1013	194	-0.4	-	572 ± 2	571 ± 27	✓
	sl.12-1	6.27	6.19	11.58	1055	?	?	?	?	570 ± 45	✓ ↓
	sl.12-2	6.40	6.30	10.77	1066	?	?	?	?	579 ± 23	✓
	d6-1	7.14	6.20	10.51	113	?	?	?			✓
	d6-2	7.48	6.17	10.19	102	?	?			154 ± 94	
	sl.12-3	8.06	5.53	52%	497						✓

new sample (population) →

fixed? →

error - primary x5  
brief spike in 10

std not calculated